Project No. W-____-____-

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF SAFE DRINKING WATER
TECHNICAL REVIEW FORM

SURFACE WATER TREATMENT RULE
(N.J.A.C. 7:10-9.1 et seq.)

Water Purveyor	PWSID#	Municipality

Type of treatment:
- ❒ Conventional (Coagulation, flocculation, sedimentation)
- ❒ Direct, slow sand, or DE filtration
- ❒ Other:

Plant capacity: _____ Type of media:

No. of filters: _____ Depth of media:

	YES	NO	N/A
Filter Performance			
1. Is the plant designed so the effluent turbidity is less than 0.5 NTU?	❒	❒	❒
2. Is a continuous turbidimeter provided on each filter?	❒	❒	❒
on the combined filter effluent?	❒	❒	❒
3. Is the integrity of each turbidimeter verified at least once per day by check (grab) samples? Frequency: _____	❒	❒	❒
4. Are procedures in place for the evaluation of individual filters on a periodic basis?	❒	❒	❒
5. Are procedures in place to minimize turbidity spikes after backwashing?	❒	❒	❒
6. Is a coagulant added at all times?	❒	❒	❒
Disinfection Practices			
1. Is the plant designed so as to maintain a residual greater than 0.2 mg/l leaving the plant at all times?	❒	❒	❒
2. Is a continuous chlorine analyzer/recorder provided on the plant effluent line?	❒	❒	❒
3. Is the integrity of the analyzer/recorder verified at least once per day by check (grab) samples? Frequency: _____	❒	❒	❒

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	YES	NO	N/A
4. Are procedures in place for taking residual readings in the distribution system?	❒	❒	❒
5. Are the location and frequency of the sample points in No. 4 above the same as that for the Total Coliform Rule?	❒	❒	❒

CT Calculations

1. Based on the type of treatment provided, what is the log credit for removal of :
   Giardia? _____ - log
   Viruses? _____ - log

2. Based on the removal credit indicated in No. 1 above, what log inactivation is required for:
   Giardia? _____ - log
   Viruses? _____ - log

3. From the CT tables, what is the required CT value for the plant? _____ mg-min/l

4. What is the inactivation ratio, required log x (CT_{actual} / $CT_{required}$) for:
   summer temperatures and peak flow?
   winter temperatures and peak flow?

   Attach calculations.

5. Are the inactivation ratios greater than 1.0?	❒	❒	❒
6. Is the plant capacity greater than 10 MGD?	❒	❒	❒
If so, have plans for tracer studies on all basins which carry a chlorine residual been prepared?	❒	❒	❒

***Submit appropriate engineering plans, specifications, reports, etc. to substantiate your answers. ***

I hereby certify that answers provided herein are accurate and reflective of the project being considered for approval.

Signature of Engineer Date N.J.P.E. #
Professional Engineer's Embossed Seal

_____
Type or Print Name of Engineering Firm